

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/552,158  
Source: PCT  
Date Processed by STIC: 10/24/2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:45

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

4 <110> APPLICANT: Xenon Pharmaceuticals Inc.  
 6 <120> TITLE OF INVENTION: Juvenile Hemochromatosis Gene (HFE2A), Expression Products  
 7 and Uses Thereof  
 9 <130> FILE REFERENCE: 760050-134  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/552,158  
 C--> 12 <141> CURRENT FILING DATE: 2005-10-12  
 14 <150> PRIOR APPLICATION NUMBER: 60/462,867  
 15 <151> PRIOR FILING DATE: 2003-04-15  
 17 <150> PRIOR APPLICATION NUMBER: 60/488,607  
 18 <151> PRIOR FILING DATE: 2003-07-18  
 20 <150> PRIOR APPLICATION NUMBER: 60/498,458  
 21 <151> PRIOR FILING DATE: 2003-08-28  
 23 <160> NUMBER OF SEQ ID NOS: 62  
 25 <170> SOFTWARE: PatentIn version 3.0

*Does Not Comply  
 Corrected Diskette Needed  
 (P0-13,6-10)*

*OK*

## ERRORED SEQUENCES

*Insert hard returns.*

E--> 934 <210> SEQ ID NO: 25 <211> 420 <212> PRT <213> Mus musculus <400> 25  
 E--> 936 <211> LENGTH:  
 E--> 936 <212> TYPE:  
 E--> 936 <213> ORGANISM:  
 E--> 936 <400> SEQUENCE:

936	Met	Gly	Gln	Ser	Pro	Ser	Pro	Arg	Ser	Pro	His	Gly	Ser	Pro	Pro	Thr
937	1			5					10					15		
939	Leu	Ser	Thr	Leu	Thr	Leu	Leu	Leu	Leu	Cys	Gly	Gln	Ala	His	Ser	
940				20					25				30			
942	Gln	Cys	Lys	Ile	Leu	Arg	Cys	Asn	Ala	Glu	Tyr	Val	Ser	Ser	Thr	Leu
943			35					40					45			
945	Ser	Leu	Arg	Gly	Gly	Gly	Ser	Pro	Asp	Thr	Pro	Arg	Gly	Gly	Gly	Arg
946		50					55					60				
948	Gly	Gly	Leu	Ala	Ser	Gly	Gly	Leu	Cys	Arg	Ala	Leu	Arg	Ser	Tyr	Ala
949	65					70				75				80		
951	Leu	Cys	Thr	Arg	Arg	Thr	Ala	Arg	Thr	Cys	Arg	Gly	Asp	Leu	Ala	Phe
952				85					90				95			
954	His	Ser	Ala	Val	His	Gly	Ile	Glu	Asp	Leu	Met	Ile	Gln	His	Asn	Cys
955			100						105				110			
957	Ser	Arg	Gln	Gly	Pro	Thr	Ala	Pro	Pro	Pro	Ala	Arg	Gly	Pro	Ala	Leu
958			115					120					125			
960	Pro	Gly	Ala	Gly	Pro	Ala	Pro	Leu	Thr	Pro	Asp	Pro	Cys	Asp	Tyr	Glu
961		130					135					140				
963	Ala	Arg	Phe	Ser	Arg	Leu	His	Gly	Arg	Ala	Pro	Gly	Phe	Leu	His	Cys
964	145					150					155				160	

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:45

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

```

966 Ala Ser Phe Gly Asp Pro His Val Arg Ser Phe His Asn Gln Phe His
967          165          170          175
969 Thr Cys Arg Val Gln Gly Ala Trp Pro Leu Leu Asp Asn Asp Phe Leu
970          180          185          190
972 Phe Val Gln Ala Thr Ser Ser Pro Val Ser Ser Gly Ala Asn Ala Thr
973          195          200          205
975 Thr Ile Arg Lys Ile Thr Ile Ile Phe Lys Asn Met Gln Glu Cys Ile
976          210          215          220
978 Asp Gln Lys Val Tyr Gln Ala Glu Val Asp Asn Leu Pro Ala Ala Phe
979 225          230          235          240
981 Glu Asp Gly Ser Ile Asn Gly Gly Asp Arg Pro Gly Gly Ser Ser Leu
982          245          250          255
984 Ser Ile Gln Thr Ala Asn Leu Gly Ser His Val Glu Ile Arg Ala Ala
985          260          265          270
987 Tyr Ile Gly Thr Thr Ile Ile Ile Arg Gln Thr Ala Gly Gln Leu Ser
988          275          280          285
990 Phe Ser Ile Arg Val Ala Glu Asp Val Ala Arg Ala Phe Ser Ala Glu
991          290          295          300
993 Gln Asp Leu Gln Leu Cys Val Gly Gly Cys Pro Pro Ser Gln Arg Leu
994 305          310          315          320
996 Ser Arg Ser Glu Arg Asn Arg Arg Gly Ala Ile Ala Ile Asp Thr Ala
997          325          330          335
999 Arg Arg Leu Cys Lys Glu Gly Leu Pro Val Glu Asp Ala Tyr Phe Gln
1000          340          345          350
1002 Ser Cys Val Phe Asp Val Ser Val Ser Gly Asp Pro Asn Phe Thr Val
1003          355          360          365
1005 Ala Ala Gln Thr Ala Leu Asp Asp Ala Arg Ile Phe Leu Thr Asp Leu
1006          370          375          380
1008 Glu Asn Leu His Leu Phe Pro Ser Asp Ala Gly Pro Pro Leu Ser Pro
1009 385          390          395          400
1011 Ala Ile Cys Leu Val Pro Leu Leu Ser Ala Leu Phe Val Leu Trp Leu
1012          405          410          415
1014 Cys Phe Ser Lys
1015          420
1018 <210> SEQ ID NO: 26
1019 <211> LENGTH: 422
1020 <212> TYPE: PRT
1021 <213> ORGANISM: Rattus rattus
1023 <400> SEQUENCE: 26
1024 Met Gly Asp Arg Gly Arg Ser Pro Ser Leu Arg Ser Pro His Gly Ser
1025 1          5          10          15
1027 Pro Pro Thr Leu Ser Thr Leu Thr Leu Leu Leu Leu Cys Gly Gln
1028          20          25          30
1030 Ala His Ser Gln Cys Lys Ile Leu Arg Cys Asn Ala Glu Tyr Val Ser
1031          35          40          45
1033 Phe Thr Leu Ser Leu Arg Gly Gly Gly Ser Pro Asp Thr Pro Arg Gly
1034          50          55          60
1036 Gly Gly Arg Gly Gly Pro Ala Ser Gly Gly Leu Cys Arg Ala Leu Arg
1037 65          70          75          80

```

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:45

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

```

1039 Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
1040      85      90      95
1042 Leu Ala Phe His Ser Ala Val His Gly Ile Glu Asp Leu Met Ile Gln
1043      100      105      110
1045 His Asn Cys Ser Arg Gln Gly Pro Thr Ala Ser Pro Pro Ala Arg Gly
1046      115      120      125
1048 Pro Ala Leu Pro Gly Ala Gly Pro Ala Pro Leu Thr Pro Asp Pro Cys
1049      130      135      140
1051 Asp Tyr Glu Ala Arg Phe Ser Arg Leu His Gly Arg Thr Pro Gly Phe
1052 145      150      155      160
1054 Leu His Cys Ala Ser Phe Gly Asp Pro His Val Arg Ser Phe His Asn
1055      165      170      175
1057 His Phe His Thr Cys Arg Val Gln Gly Ala Trp Pro Leu Leu Asp Asn
1058      180      185      190
1060 Asp Phe Leu Phe Val Gln Ala Thr Ser Ser Pro Val Ala Ser Gly Ala
1061      195      200      205
1063 Asn Ala Thr Thr Ile Arg Lys Ile Thr Ile Ile Phe Lys Asn Met Gln
1064      210      215      220
1066 Glu Cys Ile Asp Gln Lys Val Tyr Gln Ala Glu Val Asp Asn Leu Pro
1067 225      230      235      240
1069 Ala Ala Phe Glu Asp Gly Ser Val Asn Gly Gly Asp Arg Pro Gly Gly
1070      245      250      255
1072 Ser Ser Leu Ser Ile Gln Thr Ala Asn Leu Gly Ser His Val Glu Ile
1073      260      265      270
1075 Arg Ala Ala Tyr Ile Gly Thr Thr Ile Ile Val Arg Gln Thr Ala Gly
1076      275      280      285
1078 Gln Leu Ser Phe Ser Ile Arg Val Ala Glu Asp Val Ala Arg Ala Phe
1079      290      295      300
1081 Ser Ala Glu Gln Asp Leu Gln Leu Cys Val Gly Gly Cys Pro Pro Ser
1082 305      310      315      320
1084 Gln Arg Leu Ser Arg Ser Glu Arg Asn Arg Arg Gly Ala Ile Ala Ile
1085      325      330      335
1087 Asp Thr Ala Arg Arg Leu Cys Lys Glu Gly Leu Pro Val Glu Asp Ala
1088      340      345      350
1090 Tyr Phe Gln Ser Cys Val Phe Asp Val Ser Val Ser Gly Asp Pro Asn
1091      355      360      365
1093 Phe Thr Val Ala Ala Gln Ser Ala Leu Asp Asp Ala Arg Val Phe Leu
1094      370      375      380
1096 Thr Asp Leu Glu Asn Leu His Leu Phe Pro Val Asp Ala Gly Pro Pro
1097 385      390      395      400
1099 Leu Ser Pro Ala Thr Cys Leu Val Arg Leu Leu Ser Val Leu Phe Val
1100      405      410      415
1102 Leu Trp Phe Cys Ile Gln
1103      420

```

1106 &lt;210&gt; SEQ ID NO: 27

1107 &lt;211&gt; LENGTH: 366

1108 &lt;212&gt; TYPE: PRT

1109 &lt;213&gt; ORGANISM: Fugu

E--&gt; 1111 &lt;400&gt; SEQUENCE: 27

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:45

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

```

1112 Ala Ser Cys Arg Ile Leu Arg Cys Asn Ser Asp Phe Val Ala Ala Thr
1113 1 5 10 15
1115 Leu Asp Leu Gly Ser Ser Ala Gly Ala Gly Gly Gly Ala Pro Leu Ser
1116 20 25 30
1118 Arg Glu Ala Ala Asn Ala Glu Tyr Cys Arg Ala Leu His Ser Tyr Ser
1119 35 40 45
1121 Thr Cys Thr Lys Arg Met Ala Arg Pro Cys Arg Gly Asp Leu Ala Tyr
1122 50 55 60
1124 His Ser Ala Val Gln Gly Ile Glu Asp Leu Leu Ile Gln Tyr Arg Cys
1125 65 70 75 80
1127 Pro Leu Ala Gly Pro Thr Ala Gln Pro Arg Pro Leu Pro Pro Leu Leu
1128 85 90 95
1130 Ser Gly Asp Val Cys Leu Tyr Asp Arg Arg Leu Ala Ala Ala Glu Ala
1131 100 105 110
1133 Pro Gln Pro Asp Tyr Leu His Cys Gly Val Phe Gly Asp Pro His Ile
1134 115 120 125
1136 Arg Thr Phe Asn Asn Asp Phe His Thr Cys Ala Val Gln Gly Ala Trp
1137 130 135 140
1139 Pro Leu Ile Asp Asn Asp Phe Leu Tyr Val Gln Ala Thr Ser Ser Pro
1140 145 150 155 160
1142 Thr Arg Arg Gly Thr Gln Ala Thr Met Leu Thr Lys Ile Thr Val Ile
1143 165 170 175
1145 Val Lys Ser Trp Arg His Cys Val Asp Gln Gln Leu Tyr Gln Ala Glu
1146 180 185 190
1148 Leu Asp Asp Val Pro Met Ala Phe Ala Asp Gly Ser Val Val Ser Gly
1149 195 200 205
1151 Glu Arg Arg Gly Gln His Thr Leu Ala Ile Thr Gln Ser Pro Gly Arg
1152 210 215 220
1154 His Ala Glu Ile Arg Ala Ala His Ile Ala Thr Val Ala Ser Gly Gln
1155 225 230 235 240
1157 Ser Gly Arg Ser Leu Ser Leu Ser Val Tyr Ser Pro Arg Ser Val Val
1158 245 250 255
1160 Glu Ala Phe Gly Pro Glu Gln Asp Leu Gln Leu Cys Met Trp Gly Cys
1161 260 265 270
1163 Pro Ala Ser Gln Lys Leu Ser Thr Pro Pro Pro Thr Ser Ser Thr Phe
1164 275 280 285
1166 Ser Ala Ala Val Leu Ala His Cys Asp Ala Leu Leu Pro Val Arg Asp
1167 290 295 300
1169 Val Tyr His Gln Ala Cys Ile Phe Asp Leu Ile Thr Ser Gly Asp Leu
1170 305 310 315 320
1172 Asn Ser Ser Gly Ala Ala Ile Ser Ala Leu Gln Asp Ala Gln Lys Leu
1173 325 330 335
1175 Ile Ser Asp Pro Lys Arg Val His Leu Leu Ser Pro Thr Ser Ala Ala
1176 340 345 350
1178 Gln Arg Glu Asp His Leu Cys Leu Leu Leu Leu Leu Ser
1179 355 360 365
1182 <210> SEQ ID NO: 28
1183 <211> LENGTH: 432
1184 <212> TYPE: PRT

```

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:45

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

```

1185 <213> ORGANISM: Chicken
1187 <400> SEQUENCE: 28
1188 Met Gly Arg Gly Ala Gly Ser Thr Ala Leu Gly Leu Phe Gln Ile Leu
1189 1          5          10          15
1191 Pro Val Phe Leu Cys Ile Phe Pro Pro Val Thr Ser Pro Cys Lys Ile
1192          20          25          30
1194 Leu Lys Cys Asn Ser Glu Phe Trp Ala Ala Thr Ser Gly Ser His His
1195          35          40          45
1197 Leu Gly Ala Glu Glu Thr Pro Glu Phe Cys Thr Ala Leu Arg Ala Tyr
1198          50          55          60
1200 Ala His Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp Leu Ala
1201 65          70          75          80
1203 Tyr His Ser Ala Val His Gly Ile Asp Asp Leu Met Val Gln His Asn
1204          85          90          95
1206 Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr Leu Pro
1207          100         105         110
1209 Pro Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile Cys His Tyr
1210          115         120         125
1212 Glu Lys Ser Phe His Lys His Ser Ala Ala Pro Asn Tyr Thr His Cys
1213          130         135         140
1215 Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp Thr Phe Gln
1216 145         150         155         160
1218 Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn Asn Tyr Leu
1219          165         170         175
1221 Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser Ser Ala Thr
1222          180         185         190
1224 Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Ser Phe Gln Glu Cys Val
1225          195         200         205
1227 Glu Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro Ala Ala Phe
1228          210         215         220
1230 Ala Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala Asn Ser Leu
1231 225         230         235         240
1233 Lys Ile Thr Glu Lys Val Ser Gly Gln His Ile Glu Ile Gln Ala Lys
1234          245         250         255
1236 Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg Tyr Leu Thr
1237          260         265         270
1239 Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val Glu Asp Arg
1240          275         280         285
1242 Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro Leu Asn Gln
1243          290         295         300
1245 Gln Ile Asp Phe Gln Thr Phe Arg Leu Ala Gln Ala Ala Glu Gly Arg
1246 305         310         315         320
1248 Ala Arg Arg Lys Gly Pro Ser Leu Pro Ala Pro Pro Glu Ala Phe Thr
1249          325         330         335
1251 Tyr Glu Ser Ala Thr Ala Lys Cys Arg Glu Lys Leu Pro Val Glu Asp
1252          340         345         350
1254 Leu Tyr Phe Gln Ser Cys Val Phe Asp Leu Leu Thr Thr Gly Asp Val
1255          355         360         365
1257 Asn Phe Met Leu Ala Ala Tyr Tyr Ala Phe Glu Asp Val Lys Met Leu

```

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:46

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

1258            370                            375                            380  
 1260 His Ser Asn Lys Asp Lys Leu His Leu Tyr Glu Arg Thr Arg Ala Leu  
 1261 385                            390                            395                            400  
 1263 Ala Pro Gly Asn Ala Ala Pro Ser Glu His Pro Trp Ala Leu Pro Ala  
 1264                            405                            410                            415  
 1266 Leu Trp Val Ala Leu Leu Ser Leu Ser Gln Cys Trp Leu Gly Leu Leu  
 1267                            420                            425                            430  
 1270 <210> SEQ ID NO: 29  
 1271 <211> LENGTH: 21  
 1272 <212> TYPE: DNA  
 1273 <213> ORGANISM: Artificial  
 1275 <220> FEATURE:  
 1276 <223> OTHER INFORMATION: Polynucleotide replication primer  
 1278 <400> SEQUENCE: 29  
 1279 tccaagtcag cgactctctc g 21  
 1282 <210> SEQ ID NO: 30  
 1283 <211> LENGTH: 21  
 1284 <212> TYPE: DNA  
 1285 <213> ORGANISM: Artificial  
 1287 <220> FEATURE:  
 1288 <223> OTHER INFORMATION: Polynucleotide replication primer  
 1290 <400> SEQUENCE: 30  
 1291 tccaagtcag tgactctctc g 21  
 1294 <210> SEQ ID NO: 31  
 1295 <211> LENGTH: 21  
 1296 <212> TYPE: DNA  
 1297 <213> ORGANISM: Artificial  
 1299 <220> FEATURE:  
 1300 <223> OTHER INFORMATION: Fragment containing polymorphism  
 1302 <400> SEQUENCE: 31  
 1303 acctgccgcg gggacctcgc c 21  
 1306 <210> SEQ ID NO: 32  
 1307 <211> LENGTH: 21  
 1308 <212> TYPE: DNA  
 1309 <213> ORGANISM: Artificial  
 1311 <220> FEATURE:  
 1312 <223> OTHER INFORMATION: Fragment containing polymorphism  
 1314 <400> SEQUENCE: 32  
 1315 acctgccgcg tggacctcgc c 21  
 1318 <210> SEQ ID NO: 33  
 1319 <211> LENGTH: 21  
 1320 <212> TYPE: DNA  
 1321 <213> ORGANISM: Artificial  
 1323 <220> FEATURE:  
 1324 <223> OTHER INFORMATION: Fragment containing polymorphism  
 1326 <400> SEQUENCE: 33  
 1327 gcctgggaaa cctggctgga t 21  
 1330 <210> SEQ ID NO: 34  
 1331 <211> LENGTH: 21

*Give Source of Genetic Material?*  
*Same Error*

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:46

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

1332 <212> TYPE: DNA	
1333 <213> ORGANISM: Artificial	
1335 <220> FEATURE:	
1336 <223> OTHER INFORMATION: Fragment containing polymorphism	
1338 <400> SEQUENCE: 34	
1339 gcctgggaaa gctggctgga t	21
1342 <210> SEQ ID NO: 35	
1343 <211> LENGTH: 21	
1344 <212> TYPE: DNA	
1345 <213> ORGANISM: Artificial	
1347 <220> FEATURE:	
1348 <223> OTHER INFORMATION: Fragment containing polymorphism	
1350 <400> SEQUENCE: 35	
1351 tcccttctgt cttagctca t	21
1354 <210> SEQ ID NO: 36	
1355 <211> LENGTH: 21	
1356 <212> TYPE: DNA	
1357 <213> ORGANISM: Artificial	
1359 <220> FEATURE:	
1360 <223> OTHER INFORMATION: Fragment containing polymorphism	
1362 <400> SEQUENCE: 36	
1363 tcccttctgt gttagctca t	21
1366 <210> SEQ ID NO: 37	
1367 <211> LENGTH: 20	
1368 <212> TYPE: DNA	
1369 <213> ORGANISM: Artificial	
1371 <220> FEATURE:	
1372 <223> OTHER INFORMATION: Fragment containing polymorphism	
1374 <400> SEQUENCE: 37	
1375 gaggaggagg ccgggggtgga	20
1378 <210> SEQ ID NO: 38	
1379 <211> LENGTH: 23	
1380 <212> TYPE: DNA	
1381 <213> ORGANISM: Artificial	
1383 <220> FEATURE:	
1384 <223> OTHER INFORMATION: Fragment containing polymorphism	
1386 <400> SEQUENCE: 38	
1387 gaggaggagg aggccggggt gga	23
1390 <210> SEQ ID NO: 39	
1391 <211> LENGTH: 21	
1392 <212> TYPE: DNA	
1393 <213> ORGANISM: Artificial	
1395 <220> FEATURE:	
1396 <223> OTHER INFORMATION: Fragment containing polymorphism	
1398 <400> SEQUENCE: 39	
1399 gcctccctgc cccggaccct t	21
1402 <210> SEQ ID NO: 40	
1403 <211> LENGTH: 21	
1404 <212> TYPE: DNA	

*Same Error*



## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:46

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

1405 <213> ORGANISM: Artificial  
1407 <220> FEATURE:  
1408 <223> OTHER INFORMATION: Fragment containing polymorphism  
1410 <400> SEQUENCE: 40  
1411 gcctccctgc gccggaccct t 21  
1414 <210> SEQ ID NO: 41  
1415 <211> LENGTH: 21  
1416 <212> TYPE: DNA  
1417 <213> ORGANISM: Artificial  
1419 <220> FEATURE:  
1420 <223> OTHER INFORMATION: Fragment containing polymorphism  
1422 <400> SEQUENCE: 41  
1423 atggtcgtcc cccgggggttc t 21  
1426 <210> SEQ ID NO: 42  
1427 <211> LENGTH: 21  
1428 <212> TYPE: DNA  
1429 <213> ORGANISM: Artificial  
1431 <220> FEATURE:  
1432 <223> OTHER INFORMATION: Fragment containing polymorphism  
1434 <400> SEQUENCE: 42  
1435 atggtcgtcc accgggggttc t 21  
1438 <210> SEQ ID NO: 43  
1439 <211> LENGTH: 21  
1440 <212> TYPE: DNA  
1441 <213> ORGANISM: Artificial  
1443 <220> FEATURE:  
1444 <223> OTHER INFORMATION: Fragment containing polymorphism  
1446 <400> SEQUENCE: 43  
1447 cgtccccccgg ggttcttgca t 21  
1450 <210> SEQ ID NO: 44  
1451 <211> LENGTH: 21  
1452 <212> TYPE: DNA  
1453 <213> ORGANISM: Artificial  
1455 <220> FEATURE:  
1456 <223> OTHER INFORMATION: Fragment containing polymorphism  
1458 <400> SEQUENCE: 44  
1459 cgtccccccgg cgttcttgca t 21  
1462 <210> SEQ ID NO: 45  
1463 <211> LENGTH: 21  
1464 <212> TYPE: DNA  
1465 <213> ORGANISM: Artificial  
1467 <220> FEATURE:  
1468 <223> OTHER INFORMATION: Fragment containing polymorphism  
1470 <400> SEQUENCE: 45  
1471 gtccaaggag cttggcctct a 21  
1473 <210> SEQ ID NO: 46  
1474 <211> LENGTH: 21  
1475 <212> TYPE: DNA  
1476 <213> ORGANISM: Artificial

*Same*

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:46

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

1478 <220> FEATURE:  
1479 <223> OTHER INFORMATION: Fragment containing polymorphism  
1481 <400> SEQUENCE: 46  
1482 gtccaaggag attggcctct a 21  
1485 <210> SEQ ID NO: 47  
1486 <211> LENGTH: 21  
1487 <212> TYPE: DNA  
1488 <213> ORGANISM: Artificial  
1490 <220> FEATURE:  
1491 <223> OTHER INFORMATION: Fragment containing polymorphism  
1493 <400> SEQUENCE: 47  
1494 ccccatggc gttgggggcc a 21  
1497 <210> SEQ ID NO: 48  
1498 <211> LENGTH: 21  
1499 <212> TYPE: DNA  
1500 <213> ORGANISM: Artificial  
1502 <220> FEATURE:  
1503 <223> OTHER INFORMATION: Fragment containing polymorphism  
1505 <400> SEQUENCE: 48  
1506 ccccatggc tttgggggcc a 21  
1509 <210> SEQ ID NO: 49  
1510 <211> LENGTH: 21  
1511 <212> TYPE: DNA  
1512 <213> ORGANISM: Artificial  
1514 <220> FEATURE:  
1515 <223> OTHER INFORMATION: Fragment containing polymorphism  
1517 <400> SEQUENCE: 49  
1518 taagaacatg caggaatgca t 21  
1521 <210> SEQ ID NO: 50  
1522 <211> LENGTH: 21  
1523 <212> TYPE: DNA  
1524 <213> ORGANISM: Artificial  
1526 <220> FEATURE:  
1527 <223> OTHER INFORMATION: Fragment containing polymorphism  
1529 <400> SEQUENCE: 50  
1530 taagaacatg aaggaatgca t 21  
1532 <210> SEQ ID NO: 51  
1533 <211> LENGTH: 21  
1534 <212> TYPE: DNA  
1535 <213> ORGANISM: Artificial  
1537 <220> FEATURE:  
1538 <223> OTHER INFORMATION: Fragment containing polymorphism  
1540 <400> SEQUENCE: 51  
1541 gccttctcag ctgaacagga c 21  
1544 <210> SEQ ID NO: 52  
1545 <211> LENGTH: 21  
1546 <212> TYPE: DNA  
1547 <213> ORGANISM: Artificial  
1549 <220> FEATURE:

*same*

## RAW SEQUENCE LISTING

DATE: 10/24/2005

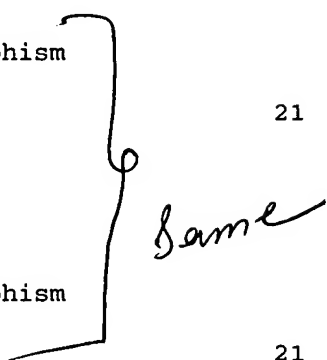
PATENT APPLICATION: US/10/552,158

TIME: 10:47:46

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

1550 <223> OTHER INFORMATION: Fragment containing polymorphism  
1552 <400> SEQUENCE: 52  
1553 gccttctcag gtgaacagga c 21  
1556 <210> SEQ ID NO: 53  
1557 <211> LENGTH: 21  
1558 <212> TYPE: DNA  
1559 <213> ORGANISM: Artificial  
1561 <220> FEATURE:  
1562 <223> OTHER INFORMATION: Fragment containing polymorphism  
1564 <400> SEQUENCE: 53  
1565 agatgctggg gttcctcttt c 21  
1568 <210> SEQ ID NO: 54  
1569 <211> LENGTH: 21  
1570 <212> TYPE: DNA  
1571 <213> ORGANISM: Artificial  
1573 <220> FEATURE:  
1574 <223> OTHER INFORMATION: Fragment containing polymorphism  
1576 <400> SEQUENCE: 54  
1577 agatgctggg attcctcttt c 21  
1580 <210> SEQ ID NO: 55  
1581 <211> LENGTH: 20  
1582 <212> TYPE: DNA  
1583 <213> ORGANISM: Artificial  
1585 <220> FEATURE:  
1586 <223> OTHER INFORMATION: Forward replication primer  
1588 <400> SEQUENCE: 55  
1589 cacttgagcc caggaatttg 20  
1591 <210> SEQ ID NO: 56  
1592 <211> LENGTH: 20  
1593 <212> TYPE: DNA  
1594 <213> ORGANISM: Artificial  
1596 <220> FEATURE:  
1597 <223> OTHER INFORMATION: Reverse replication primer  
1599 <400> SEQUENCE: 56  
1600 gactcactgc agccttgacc 20  
1603 <210> SEQ ID NO: 57  
1604 <211> LENGTH: 22  
1605 <212> TYPE: DNA  
1606 <213> ORGANISM: Artificial  
1608 <220> FEATURE:  
1609 <223> OTHER INFORMATION: Forward replication primer  
1611 <400> SEQUENCE: 57  
1612 gtgtgctaca agtttgccga at 22  
1615 <210> SEQ ID NO: 58  
1616 <211> LENGTH: 20  
1617 <212> TYPE: DNA  
1618 <213> ORGANISM: Artificial  
1620 <220> FEATURE:  
1621 <223> OTHER INFORMATION: Reverse replication primer



A handwritten bracket on the right side of the text groups three entries: the one starting at line 1562, the one at 1574, and the one at 1586. To the right of the bracket is the handwritten word "Same".

## RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:46

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

```

1623 <400> SEQUENCE: 58
1624 gcttgaaact gggagttgga                                20
1627 <210> SEQ ID NO: 59
1628 <211> LENGTH: 22
1629 <212> TYPE: DNA
1630 <213> ORGANISM: Artificial
1632 <220> FEATURE:
1633 <223> OTHER INFORMATION: Forward replication primer
1635 <400> SEQUENCE: 59
1636 gggaaatggt cccataattc ct                                22
1639 <210> SEQ ID NO: 60
1640 <211> LENGTH: 19
1641 <212> TYPE: DNA
1642 <213> ORGANISM: Artificial
1644 <220> FEATURE:
1645 <223> OTHER INFORMATION: Reverse replication primer
1647 <400> SEQUENCE: 60
1648 cgccctgccca atatgttct                                19
1650 <210> SEQ ID NO: 61
1651 <211> LENGTH: 22
1652 <212> TYPE: DNA
1653 <213> ORGANISM: Artificial
1655 <220> FEATURE:
1656 <223> OTHER INFORMATION: Forward replication primer
1658 <400> SEQUENCE: 61
1659 ggtacttagc ctcgaaatga ga                                22
1662 <210> SEQ ID NO: 62
1663 <211> LENGTH: 20
1664 <212> TYPE: DNA
1665 <213> ORGANISM: Artificial
1667 <220> FEATURE:
1668 <223> OTHER INFORMATION: Reverse replication primer
1670 <400> SEQUENCE: 62
1671 gtgtcacaca actggttggt                                20

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 10/24/2005  
 PATENT APPLICATION:    US/10/552,158      TIME: 10:47:47

Input Set : A:\Xenon 154.txt  
 Output Set: N:\CRF4\10242005\J552158.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:13,14,15,16,17,18,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46

Seq#:47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62

## VERIFICATION SUMMARY

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:47

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:934 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 25 <211> 420 <212> PRT  
<213> Mus musculus <400> 25  
L:936 M:282 E: Numeric Field Identifier Missing, <211> is required.  
L:936 M:282 E: Numeric Field Identifier Missing, <212> is required.  
L:936 M:282 E: Numeric Field Identifier Missing, <213> is required.  
L:936 M:200 E: Mandatory Header Field missing, <400> is required.  
L:1111 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:27 differs:26  
L:23 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (62) Counted (61)